FILES 9 JUNE 1967 997265

[redacted]

[redacted]

[redacted]

5 June 1967
635 - OD-157

[redacted]
Post Office Box 8031
Southwest Station
Washington, D. C. 20024

Subject: [redacted] Progress Report
April 1967 - Project No. 635

Gentlemen:

In accordance with contract provisions on the above project, we are enclosing three (3) copies of [redacted] Progress Report on Project 635 for the period April 1967.

Also enclosed are two (2) copies of our Financial Report for this period.

Very truly yours,

[redacted]

Executive Vice President

LHB/aw

Enc. (3) P. R.
(2) F. R.

Cert. #855583

[redacted]

635 PROGRESS REPORT

PERIOD COVERED: April 1967

DOCUMENT NO.: OD-155

PRESENT STATUS:

The microscope eyepiece extension has been assembled and mounted on the microscope. Initial tests have indicated that the optical performance is satisfactory and in accordance with [redacted] predictions. The mount for the microscope was found to restrict operation of the image rotation mechanism, (this problem is described below) and a different method of attaching the eyepiece extension to the microscope was chosen. This design change was made and the parts released for fabrication. At month's end, the parts required for the change had been fabricated but not finished (painted).

Work was resumed on the basic unit after receipt of authorization to overrun target cost during the month. Except for minor problems, which require some electrical and mechanical changes, the unit is ready for final checkout.

PROBLEM AREAS:

Microscope Mounting - The original design for the microscope eyepiece extension utilized the microscope eyepiece housings as the mounting and locating means. Our initial tests of the eyepiece extension have shown that the microscope housing castings are not suitable for mounting the extension. The surfaces chosen for the mounting pressure points have been found to be unsatisfactory because the

635-OD-155

casting strength was not great enough to prevent elastic distortion and interference with the mechanical operation of the basic microscope. This distortion was evidenced in the binding of the image rotation mechanism. To eliminate this problem, a different method of supporting the microscope was selected. A plate was designed to fit between the microscope and its mounting. The microscope extension was attached to this plate with a stout bracket thereby removing the strain of support from the eyepiece castings.

SUMMARY OF CORRESPONDENCE:

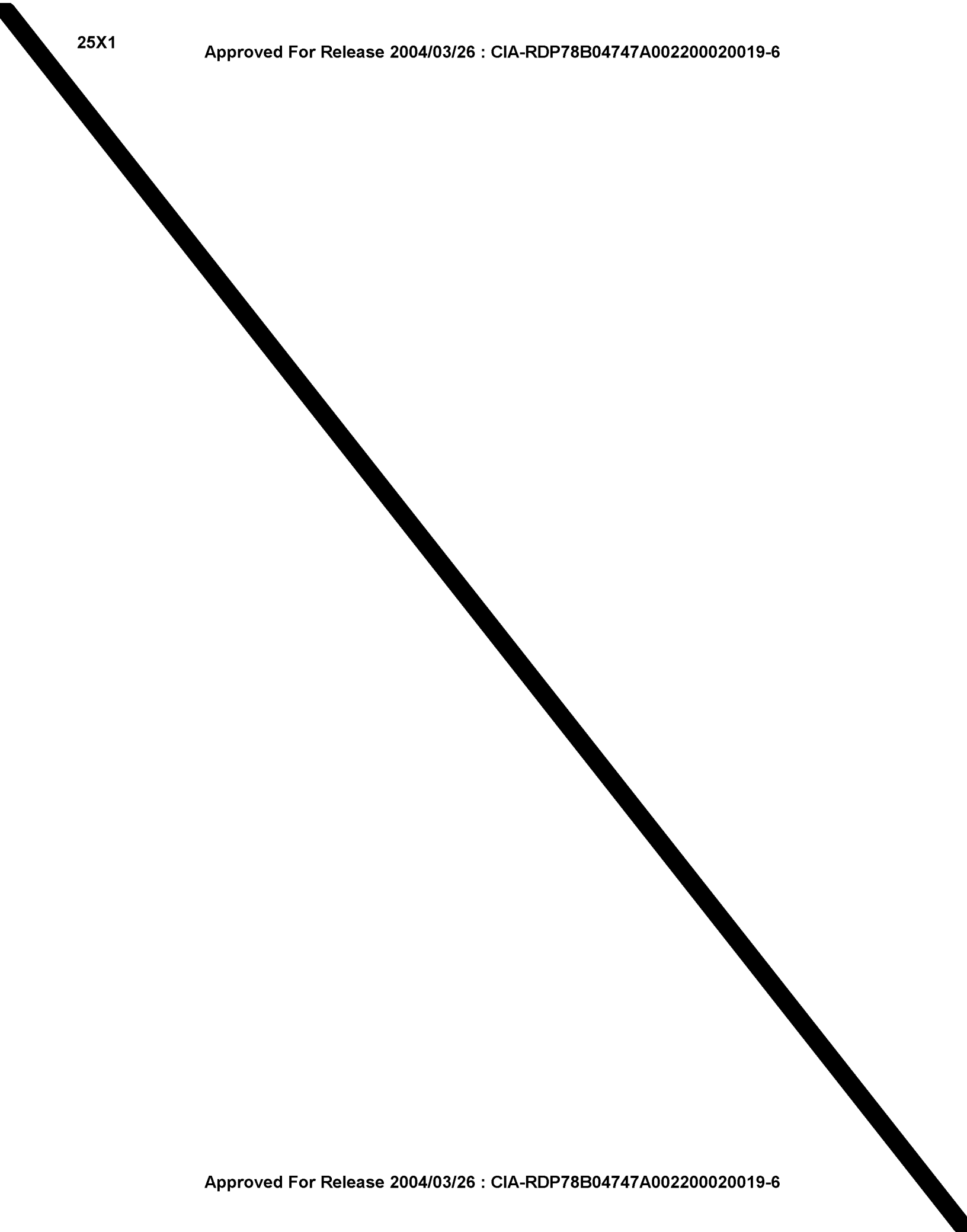
Visit by E. D. (customer's techincal representative) to 25X1 on 4/17/67 - During a visit to E. D. 25X1 inspected the light table film transport and a preliminary assembly of the microscope eyepiece extension. The optical performance of one channel (the only one set up) appeared to be satisfactory. E. D. expressed concern over some vibration present in the observed image 25X1 under high magnifications. felt that this vibration was due to the test set up (microscope was not mounted on 635 table) and not due to the extension design.

FINANCIAL REPORT:

Financial Report for month of April is enclosed.

Prepared by: 25X1

REW:maj



Approved For Release 2004/03/26 : CIA-RDP78B04747A002200020019-6